

PRECISION FIBER FERRULES**ABSTRACT OF THE DISCLOSURE**

A multiple-port optical device uses improved fiber ferrules comprising various capillary designs and shapes to precisely position optical fibers and, in particular, the optical fiber cores. The fibers are screened for geometric characteristics which further aide in precisely positioning the fiber cores. The ferrules, capillaries, fibers, and adhesives are combined to reduce adverse thermal effects and maintain the position of the fibers over a broad range of environmental conditions in which DWDM packages and modules are required to operate.